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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/852,455DATE: 12/06/2001
TIME: 15:09:11Input Set : A:\25984004.app
Output Set: N:\CRF3\12062001\I852455.raw

3 <110> APPLICANT: BLUME, ARTHUR J.
4 GOLDSTEIN, NEIL
5 PILLUTA, RENUKA
6 HSIAO, KU-CHUAN
7 PRENDERGAST, JOHN
9 <120> TITLE OF INVENTION: METHODS OF IDENTIFYING THE ACTIVITY OF GENE PRODUCTS
11 <130> FILE REFERENCE: 2598-4004US1
13 <140> CURRENT APPLICATION NUMBER: 09/852,455
14 <141> CURRENT FILING DATE: 2001-05-09
16 <150> PRIOR APPLICATION NUMBER: 60/202,912
17 <151> PRIOR FILING DATE: 2000-05-09
19 <160> NUMBER OF SEQ ID NOS: 81
21 <170> SOFTWARE: PatentIn Ver. 2.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 4
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Description of Artificial Sequence: FLAG sequence
31 <400> SEQUENCE: 1
32 Asp Tyr Lys Asp
33 1
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 13
38 <212> TYPE: PRT
39 <213> ORGANISM: Artificial Sequence
41 <220> FEATURE:
42 <223> OTHER INFORMATION: Description of Artificial Sequence: E-tag epitope
44 <400> SEQUENCE: 2
45 Gly Ala Pro Val Pro Tyr Pro Asp Pro Leu Glu Pro Arg
46 1 5 10
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 18
51 <212> TYPE: PRT
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
56 surrogate peptide
58 <400> SEQUENCE: 3
59 Arg Lys Glu Met Gly Gly Gly Gly Pro Gly Trp Ser Glu Asn Leu
60 1 5 10 15
62 Phe Gln
66 <210> SEQ ID NO: 4
67 <211> LENGTH: 7
68 <212> TYPE: PRT
69 <213> ORGANISM: Homo sapiens
71 <400> SEQUENCE: 4

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72 Trp Ser Glu Asn Leu Phe Gln
 73 1 5
 76 <210> SEQ ID NO: 5
 77 <211> LENGTH: 162
 78 <212> TYPE: PRT
 79 <213> ORGANISM: Homo sapiens
 81 <400> SEQUENCE: 5
 82 Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro His Leu Gly Asp Arg
 83 1 5 10 15
 85 Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln
 86 20 25 30
 88 Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys Gly Thr Tyr Leu Tyr
 89 35 40 45
 91 Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu
 92 50 55 60
 94 Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu Arg His Cys Leu Ser
 95 65 70 75 80
 97 Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys
 98 85 90 95
 100 Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg
 101 100 105 110
 103 His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe Asn Cys Ser Leu Cys
 104 115 120 125
 106 Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu Lys Gln Asn Thr Val
 107 130 135 140
 109 Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser
 110 145 150 155 160
 112 Cys Ser
 116 <210> SEQ ID NO: 6
 117 <211> LENGTH: 171
 118 <212> TYPE: PRT
 119 <213> ORGANISM: Homo sapiens
 121 <400> SEQUENCE: 6
 122 Leu Pro Gly Val Gly Leu Thr Pro Ser Ala Ala Gln Thr Ala Arg Gln
 123 1 5 10 15
 125 His Pro Lys Met His Leu Ala His Ser Thr Leu Lys Pro Ala Ala His
 126 20 25 30
 128 Leu Ile Gly Asp Pro Ser Lys Gln Asn Ser Leu Leu Trp Arg Ala Asn
 129 35 40 45
 131 Thr Asp Arg Ala Phe Leu Gln Asp Gly Phe Ser Leu Ser Asn Asn Ser
 132 50 55 60
 134 Leu Leu Val Pro Thr Ser Gly Ile Tyr Phe Val Tyr Ser Gln Val Val
 135 65 70 75 80
 137 Phe Ser Gly Lys Ala Tyr Ser Pro Lys Ala Pro Ser Ser Pro Leu Tyr
 138 85 90 95
 140 Leu Ala His Glu Val Gln Leu Phe Ser Ser Gln Tyr Pro Phe His Val
 141 100 105 110
 143 Pro Leu Leu Ser Ser Gln Lys Met Val Tyr Pro Gly Leu Gln Glu Pro
 144 115 120 125

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146 Trp Leu His Ser Met Tyr His Gly Ala Ala Phe Gln Leu Thr Gln Gly
147 130 135 140
149 Asp Gln Leu Ser Thr His Thr Asp Gly Ile Pro His Leu Val Leu Ser
150 145 150 155 160
152 Pro Ser Thr Val Phe Phe Gly Ala Phe Ala Leu
153 165 170
156 <210> SEQ ID NO: 7
157 <211> LENGTH: 19
158 <212> TYPE: PRT
159 <213> ORGANISM: Homo sapiens
161 <400> SEQUENCE: 7
162 Arg Lys Glu Met Gly Gly Gly Gly Pro Gly Trp Ser Glu Asn
163 1 5 10 15
165 Leu Phe Gln
169 <210> SEQ ID NO: 8
170 <211> LENGTH: 184
171 <212> TYPE: PRT
172 <213> ORGANISM: Homo sapiens
174 <400> SEQUENCE: 8
175 Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
176 1 5 10 15
178 Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
179 20 25 30
181 Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
182 35 40 45
184 Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
185 50 55 60
187 Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
188 65 70 75 80
190 Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
191 85 90 95
193 Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
194 100 105 110
196 Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
197 115 120 125
199 Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
200 130 135 140
202 Gly Thr Phe Ser Asn Thr Ser Ser Thr Asp Ile Cys Arg Pro His
203 145 150 155 160
205 Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Arg Asp Ala
206 165 170 175
208 Val Cys Thr Ser Thr Ser Pro Thr
209 180
212 <210> SEQ ID NO: 9
213 <211> LENGTH: 56
214 <212> TYPE: RNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

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219 biotinylated-RNA
221 <400> SEQUENCE: 9
222 aauugccagg acgaccgggu ccuuucuugg aucaaccgc ucaauggcug gagauu 56
225 <210> SEQ ID NO: 10
226 <211> LENGTH: 42
227 <212> TYPE: PRT
228 <213> ORGANISM: Homo sapiens
230 <400> SEQUENCE: 10
231 Glu Asp Leu Asp Asn Ile Gln Thr Pro Glu Ser Val Leu Leu Ser Ala
232 1 5 10 15
234 Val Ser Gly Glu Asp Thr Gln Asp Arg Thr Asp Arg Leu Leu Leu Thr
235 20 25 30
237 Pro Trp Val Lys Phe Leu Trp Glu Ser Tyr
238 35 40
241 <210> SEQ ID NO: 11
242 <211> LENGTH: 5
243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <221> NAME/KEY: MOD_RES
248 <222> LOCATION: (2)
249 <223> OTHER INFORMATION: Any amino acid
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
253 sequence
255 <400> SEQUENCE: 11
W~~0~~ 256 Thr Xaa Arg Leu Leu
257 1 5
260 <210> SEQ ID NO: 12
261 <211> LENGTH: 24
262 <212> TYPE: PRT
263 <213> ORGANISM: Hepatitis C virus
265 <400> SEQUENCE: 12
266 Thr Ser Gly Glu Ser Ser Gly Asp Arg Thr Arg Arg Val Leu Thr Ser
267 1 5 10 15
269 Ser Ser Ala Arg Thr Leu Pro Asn
270 20
273 <210> SEQ ID NO: 13
274 <211> LENGTH: 35
275 <212> TYPE: PRT
276 <213> ORGANISM: Hepatitis C virus
278 <400> SEQUENCE: 13
279 Leu Leu Val Thr Gly Gln Phe Pro Ser Gln Leu Leu Gly Gly Ala
280 1 5 10 15
282 Val Cys Gly Pro Ser Thr Pro Arg Leu Arg Thr Gly Leu Cys Arg Leu
283 20 25 30
285 Ser Gly Thr
286 35
289 <210> SEQ ID NO: 14

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290 <211> LENGTH: 40
291 <212> TYPE: PRT
292 <213> ORGANISM: Hepatitis C virus
294 <400> SEQUENCE: 14
295 Arg Arg Thr Cys Gly Asp Pro Ala Ala Met Leu Glu Arg Leu Ser Cys
296   1           5           10          15
298 Arg Ala Gly Asp Tyr Arg Gly Ala Ser His Thr Gly Arg Leu Leu Asn
299       20          25          30
301 Leu Arg Gly Met His Gln Tyr Pro
302       35          40
305 <210> SEQ ID NO: 15
306 <211> LENGTH: 20
307 <212> TYPE: PRT
308 <213> ORGANISM: Hepatitis C virus
310 <400> SEQUENCE: 15
311 Phe Thr Thr Pro Arg His Leu Ser Gly Arg Thr Val Gln Met Met Arg
312   1           5           10          15
314 Asp Ser Thr Ser
315       20
318 <210> SEQ ID NO: 16
319 <211> LENGTH: 15
320 <212> TYPE: PRT
321 <213> ORGANISM: Hepatitis C virus
323 <400> SEQUENCE: 16
324 Thr Ser Gly Glu Ser Ser Gly Asp Arg Thr Arg Arg Val Leu Thr
325   1           5           10          15
328 <210> SEQ ID NO: 17
329 <211> LENGTH: 11
330 <212> TYPE: PRT
331 <213> ORGANISM: Hepatitis C virus
333 <400> SEQUENCE: 17
334 Ser Gly Glu Ser Ser Gly Asp Arg Thr Arg Arg
335   1           5           10
338 <210> SEQ ID NO: 18
339 <211> LENGTH: 11
340 <212> TYPE: PRT
341 <213> ORGANISM: Gallus sp.
343 <400> SEQUENCE: 18
344 Ser Gly Ser Ser Ser Gly Gln Arg Thr Arg Lys
345   1           5           10
348 <210> SEQ ID NO: 19
349 <211> LENGTH: 13
350 <212> TYPE: PRT
351 <213> ORGANISM: Hepatitis C virus
353 <400> SEQUENCE: 19
354 Ser Gly Glu Ser Ser Gly Asp Arg Thr Arg Arg Val Leu
355   1           5           10
358 <210> SEQ ID NO: 20
359 <211> LENGTH: 13

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→ Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

VERIFICATION SUMMARY
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Input Set : A:\25984004.app
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L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:1029 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68